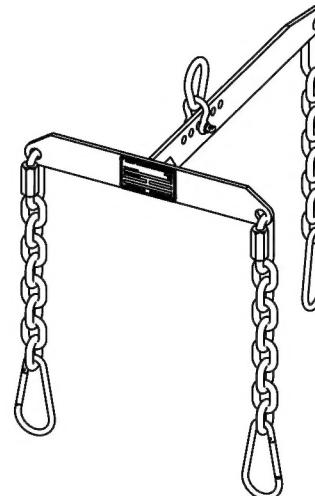
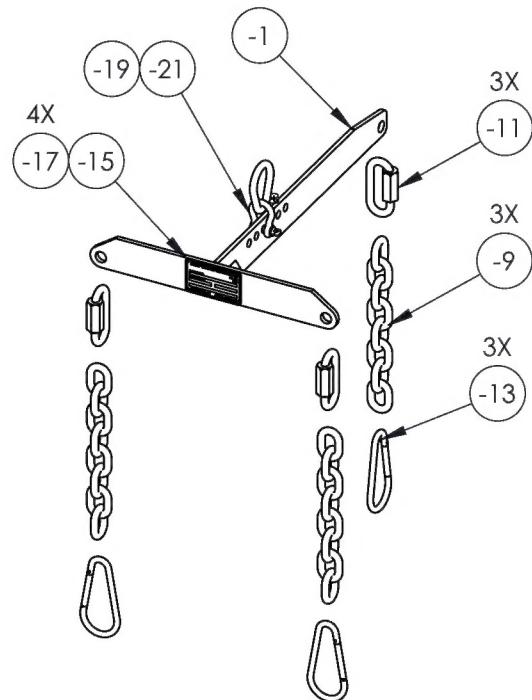


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT. -5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES. -7 CH'D SLING DESIGN ADDED GUSSETS. ADDED -19 AND -21.	1/24/2014	RJC	DW



NOTES:

1. THIS ASSY MAY BE USED COMMERCIALLY ON AW109.
2. ENGRAVE -25 T/N, S/N, "MADE IN USA", "SWL 600 LBS".

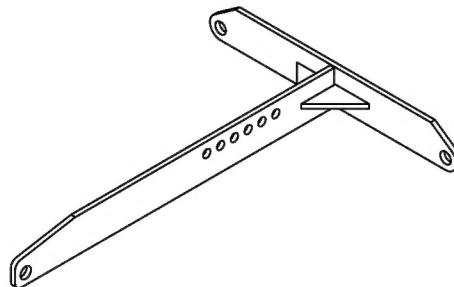
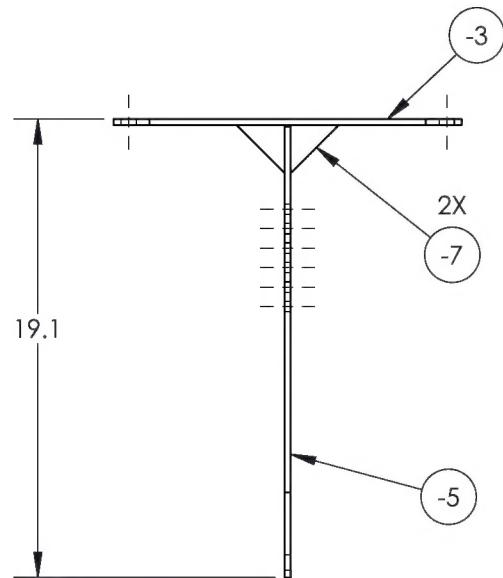
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	WELDMENT			2
1			-3		PLATE	1018	1/4 X 2 X 14-5/8	3
1			-5		BEAM	1018	1/4 X 2 X 19	4
2			-7		GUSSET	1018	1/4 X 2-1/8 X 2-1/8	5
	B/O	-9	3		CHAIN	STEEL	3/8 { 8 LINKS} MCMASTER-CARR #34245T6	1
	B/O	-11	3		QUICK LINK	STEEL	3/8 MCMASTER-CARR #8947T18	1
	B/O	-13	3		CARABINER	STEEL	3/8 MCMASTER-CARR #3933T16	1
	B/O	-15	1		RED BARN PLACARD	ALUMINUM	RB41009	1
	B/O	-17	4		#2 DRIVE SCREW	COATED STEEL	1/8 MCMASTER-CARR #90081A074	1
	B/O	-19	1		PEAR SHAPED LINK	STEEL	Ø3/8 MCMASTER-CARR #3567T31	1
	B/O	-21	1		SCREW PIN SHACKLE	STEEL	Ø5/16 MCMASTER-CARR #3558T45	1
ASSY #	ASSY -1							

 **RED BARN MACHINE**  
**TITLE** TOOL ASSY, ENGINE LIFTING

DWG NO.	REV
RBW109-3600-30-101	1
MATT	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± .5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT FINISH
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC
	USED ON MODEL
	AW109
SCALE 1:10	DATE 5/23/2013
	SHEET 1 OF 6

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT.	1/24/2014	RJC	DW

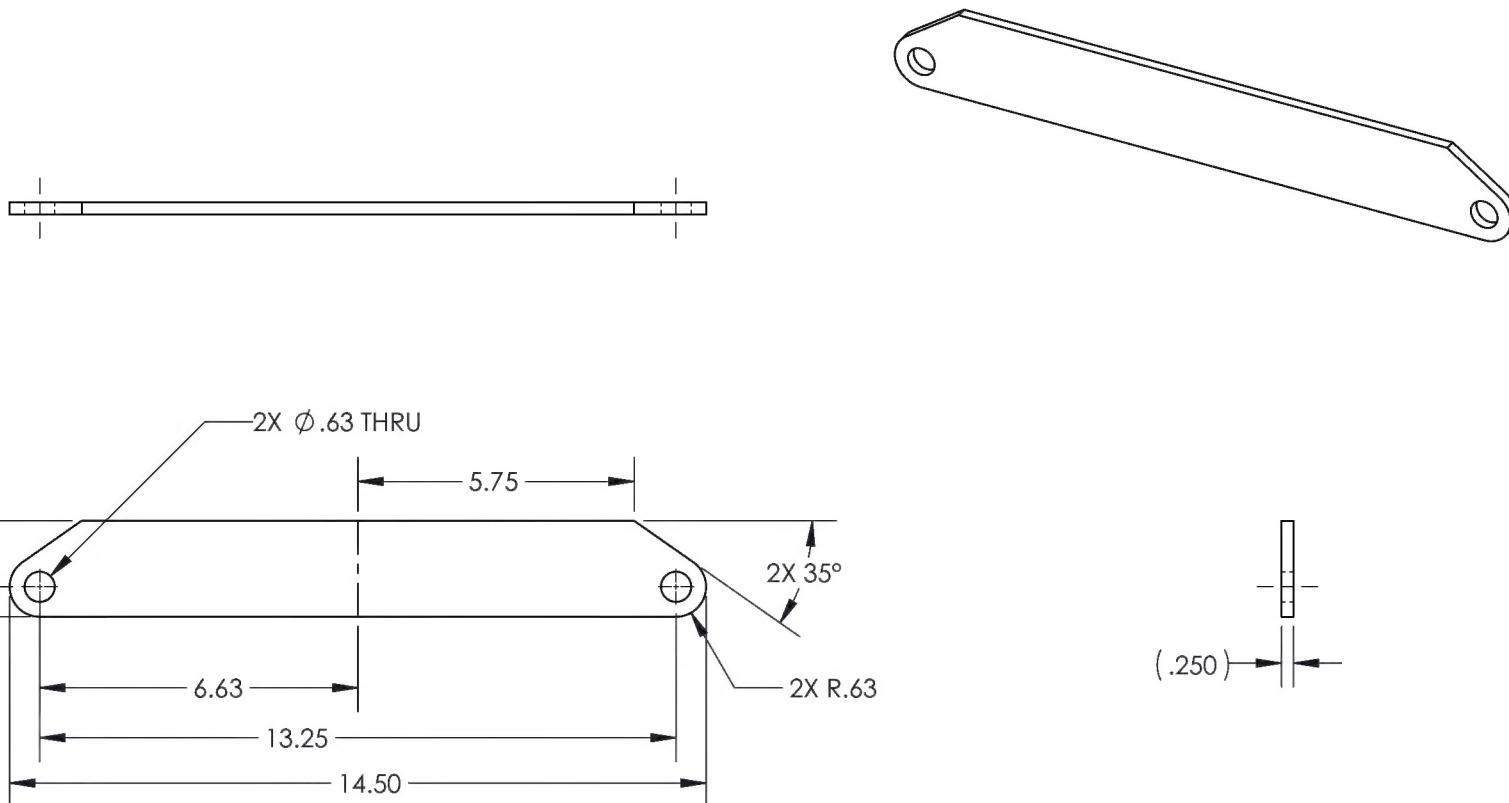


(-1)  
WELDMENT

RED BARN MACHINE	
TITLE	
TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101-1 REV 1	
MATERIAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.005 FRACTIONS $\pm$ 1/32	
.01 ANGLES $\pm$ 5°	
.1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
HEAT TREAT	
FINISH POWDER COAT YELLOW	
SPEC FED #13538	
USED ON MODEL	
AW109	
SCALE	1:8
DATE	5/23/2013
SHEET 2 OF 6	

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		REVISIONS		
REV	DESCRIPTION	DATE	INITIAL	APPROVED



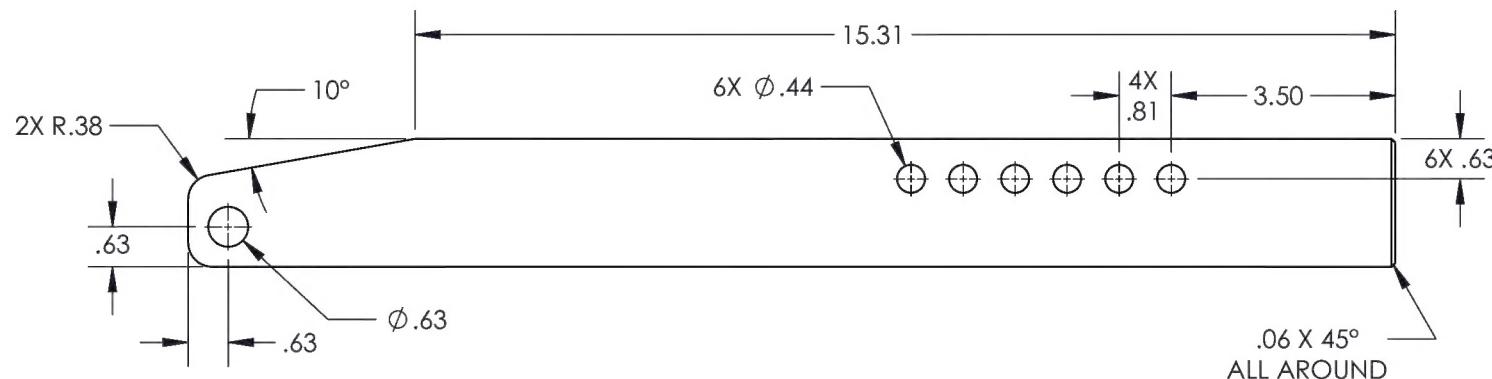
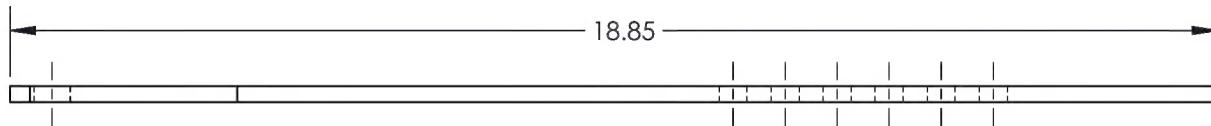
(3)

PLATE

 <b>RED BARN MACHINE</b>	
<b>TITLE</b>	TOOL ASSY, ENGINE LIFTING
<b>DWG NO.</b>	RBW109-3600-30-101-3
<b>MATL</b>	1018
<b>UNLESS OTHERWISE SPECIFIED</b>	<b>DRAWN BY:</b> MARPET
<b>DIMENSIONS ARE IN INCHES</b>	<b>APPROVED</b> <i>D Weil</i>
<b>.XXX ± .005</b>	<b>HEAT</b>
<b>.XX ± .01</b>	<b>TREAT</b>
<b>.X ± .1</b>	<b>FINISH</b>
<b>1. BREAK ALL SHARP EDGES .015 x 45°</b>	<b>SEE -1 WELDMENT</b>
<b>OR .015R</b>	<b>SPEC</b>
<b>2. DIMENSIONAL LIMITS APPLY AFTER</b>	<b>USED ON MODEL</b>
<b>PLATING</b>	<b>AW109</b>
<b>SCALE</b>	1:4
<b>DATE</b>	5/23/2013
<b>SHEET 3 OF 6</b>	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES.	1/24/2014	RJC	DW



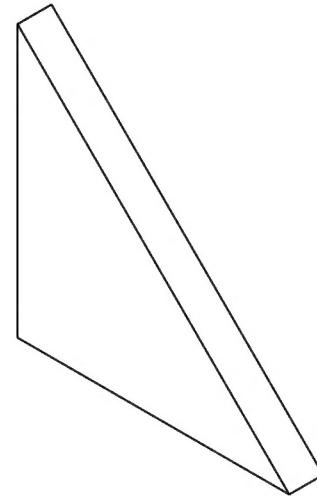
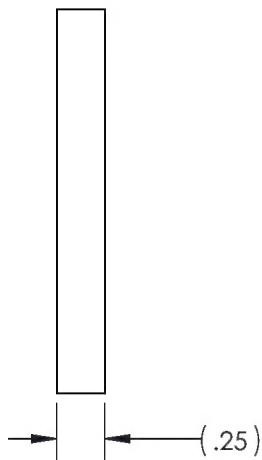
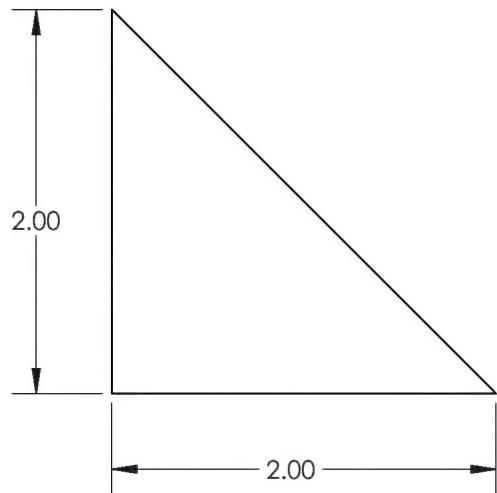
(-5)

BEAM

RB		RED BARN MACHINE	
TITLE		TOOL ASSY, ENGINE LIFTING	
DWG NO.	RBW109-3600-30-101-5	REV	1
MATL	1018	DRAWN BY:	CLOUGH
		APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
.XXX $\pm .005$	FRACTIONS $\pm 1/32$	HEAT	
.XX $\pm .01$	ANGLES $\pm .5^\circ$	TREAT	
.X $\pm .1$		FINISH	SEE -1 WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		SPEC	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL	
			AW109
SCALE	1:3	DATE	1/24/2014
			SHEET 4 OF 6

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-7 CH'D SLING DESIGN ADDED GUSSETS.	1/24/2014	RJC	DW



(-7)  
GUSSET

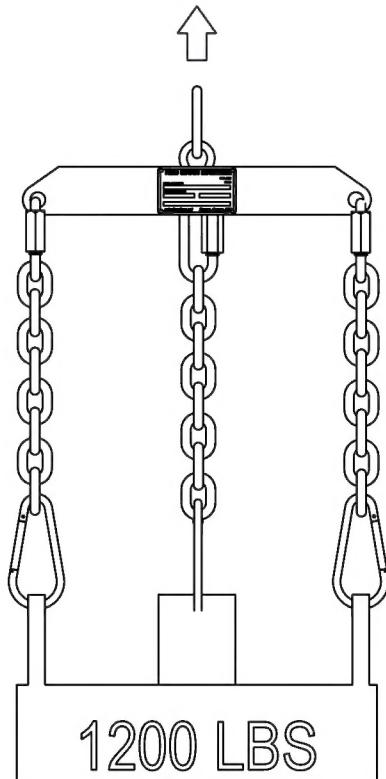
	RED BARN MACHINE	
TITLE		REV
TOOL ASSY, ENGINE SLING		1
DWG NO.	RBW109-3600-30-101-7	DRAWN BY: CLOUGH
MATL. 1018	APPROVED	
UNLESS OTHERWISE SPECIFIED	HEAT	
DIMENSIONS ARE IN INCHES	TREAT	
.XXX ± .005	FINISH	SEE -1 WELDMENT
.XX ± .01	ANGLES ± .5°	
.X ± .1	SPEC	
1. BREAK ALL SHARP EDGES .015 x 45°	USED ON MODEL	
OR .015R	AW109	
2. DIMENSIONAL LIMITS APPLY AFTER		
PLATING		
SCALE 1:1	DATE 1/24/2014	SHEET 5 OF 6

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RED BARN MACHINE  
190 S. DANEBO AVE., EUGENE OR. 97402  
(541)344-9953; fax (541)344-3863  
e-mail; sales@redbarn.net

REV		DESCRIPTION	DATE	INITIAL	APPROVED
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### FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE  
RBW109-3600-30-101, TOOL ASSY, ENGINE LIFTING. THIS  
ASSEMBLY IS DESIGNED EXCLUSIVELY FOR HOISTING AND  
INSTALLING/REMOVING ENGINE FOR AW109.  
THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.  
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED  
OF DAMAGE BEFORE USING!

#### FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON A  
OVERHEAD LIFTING DEVICE. ATTACH 3 CONNECTOR HOOKS  
TO AN APPROPRIATE TEST WEIGHT OF 1200 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING  
FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR  
STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: \_\_\_\_\_

TESTER: \_\_\_\_\_

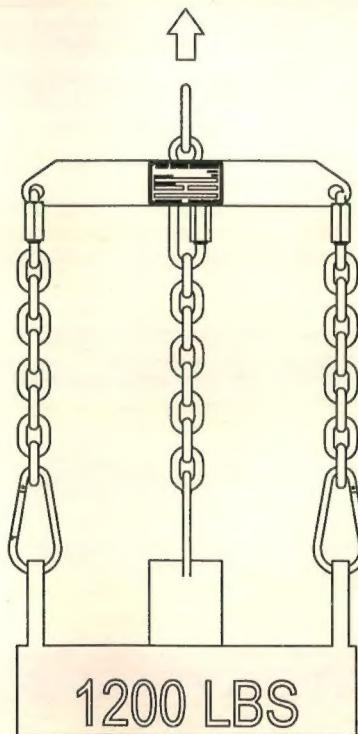
S.N.: \_\_\_\_\_

DATE: \_\_\_\_\_

 RED BARN MACHINE
TITLE TOOL ASSY, ENGINE LIFTING
DWG NO. RBW109-3600-30-101
REV 1

RED BARN MACHINE  
190 S. DANEBO AVE., EUGENE OR. 97402  
(541)344-9953; fax (541)344-3863  
e-mail; sales@redbarn.net

### FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE  
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FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR  
STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: DAS  
9 9-89 DAS

TESTER: 9  
9-89

S.N.: SI05726

DATE: 18-03-30

DAS  
38  
9-89

RB		RED BARN MACHINE
TITLE		TOOL ASSY, ENGINE LIFTING
DWG NO.		RBW109-3600-30-101
	DATE	5/23/2013
		SHEET 6 OF 6